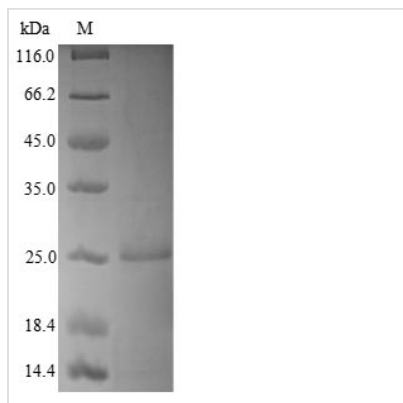




# Recombinant Human 7,8-dihydro-8-oxoguanine triphosphatase (NUDT1)

<b>Product Code</b>	CSB-YP016154HUa0
<b>Relevance</b>	Antimutagenic. Acts as a sanitizing enzyme for oxidized nucleotide pools, thus suppressing cell dysfunction and death induced by oxidative stress. Hydrolyzes 8-oxo-dGTP, 8-oxo-dATP and 2-OH-dATP, thus preventing misincorporation of oxidized purine nucleoside triphosphates into DNA and subsequently preventing A:T to C:G and G:C to T:A transversions. Able to hydrolyze also the corresponding ribonucleotides, 2-OH-ATP, 8-oxo-GTP and 8-oxo-ATP. Does not play a role in U8 snoRNA decapping activity. Binds U8 snoRNA.
<b>Abbreviation</b>	Recombinant Human NUDT1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P36639
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 85% as determined by SDS-PAGE.
<b>Sequence</b>	MSGISPQQMGEPESWSGKNPGMTGASRLYTLVLVLPQRVLLGMKKRGFG AGRWNGFGGKVEGETIEDGARRELQEESGLTVDALHKVQIVFEFVGEPEL MDVHVFCTDSIQGTPVESDEMPCWFQLDQIPFKDMWPDDSYWFPLLLQKK KFHGYFKFQGQDTILDYTLREVDTV
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	Yeast
<b>Target Names</b>	NUDT1
<b>Protein Names</b>	2-hydroxy-dATP diphosphatase (EC:3.6.1.56) 8-oxo-dGTPase Nucleoside diphosphate-linked moiety X motif 1 MTH1
<b>Expression Region</b>	19-197aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	22.3 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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